

ABSTRACT

The invention can be used for a off-shore discharge of a liquid load, mainly oil from a land storage plant to ocean-going tankers during winter time and initial ice formation when the thickness of a stable fast ice is equal to or less than 1.5 m. In the first variant, the inventive system for transferring a liquid load to a tanker comprises an ice breaker (6) moored to a mooring berth, a tanker (1) moored by the fore (8) thereof directly or at a distance to the icebreaker's stern (7), a service ship (9) disposed on the side of the stern of said tanker, a device for protecting the flexible hose (5) of a pipeline (3) against ice and a handling gear for transferring said flexible hose (5) from the icebreaker (6) to the tanker (1) which are arranged in the afterdeck of the icebreaker (6), a diving well (22) arranged in the hull of said icebreaker and provided with a diving station (21) and a service well (12) which is arranged in the afterdeck of the icebreaker (6). The device for protecting the flexible hose is embodied in the form of a cylinder (11) provided with guides (15) which make it possible to move inside the service well (12), the lower side (16) of said cylinder being disposed below the edge of floating ice. In the second variant of the system for transferring a liquid load to a tanker (1), the device for protecting the flexible hose (5) of a pipeline (3) against ice is embodied in the form of a pontoon (29), provided with a well (30) for servicing the flexible hose (5) and arranged for sea on the deck of the icebreaker (6).